

Work Order ID 57407

April 6, 2010 2:53:53 PM

Page 1

Item ID: D3262-5

Accept

Setup Start

Revision ID:

Stop

Item Name: Cap

Start Date: 4/06/10

Start Qty: 10.00

Cust Item ID:

Required Date: 4/09/10

Req'd Qty: 10.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3262

D

100

0.00



BAND SAW

Bandsaw

Memo

0.00

Jeaspa Bandsaw

Cut blanks: 6.000" x 0.500" x 5.400" long Bar

MWD
10/04/07

10 2

110

0.00



HAAS CNC VERTICAL MACHINING #1

HAAS 1

Memo

0.00

HAAS CNC vertical machine #1

Machine as per dwg D3262
Machine as per Folio FA902 and Dwg D3262
FOLIO REV: AA
DWG REV: D
Deburr

MWD
10/04/07

10 0

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 57407

April 6, 2010 2:53:53 PM



Page 2

Item ID: D3262-5

Accept



Setup Start



Revision ID:

Stop



Item Name: Cap

Start Date: 4/06/10 Start Qty: 10.00



Cust Item ID:

Required Date: 4/09/10 Req'd Qty: 10.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

120 QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

Quality Control

MW
10/04/07

10 *0*

130 QC8- Inspect parts - second check

0.00



QC

Memo

0.00

Quality Control

LB
10/04/08

10 *0*

140 Identify as per dwg & Stock Location: *LG*

0.00



Packaging

Memo

0.00

Packaging

(x10)

0 *3E10/04/08*

W/O:		WORK ORDER CHANGES					
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

Work Order ID 57407

April 6, 2010 2:53:54 PM



Page 3

Item ID: D3262-5

Accept



Setup Start



Revision ID:

Stop



Item Name: Cap

Start Date: 4/06/10 Start Qty: 10.00



Cust Item ID:

Required Date: 4/09/10 Req'd Qty: 10.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

150

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

W 1009-08

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

April 6, 2010 2:53:52 PM

Page 1

Work Order ID: 57407

Parent Item: D3262-5

Parent Item Name: Cap

Comments: IPP REV:A NEW ISSUE 10-01-19 JLM VERIFIED BY:EC

Start Date: 4/06/10

Required Date: 4/09/10

Start Qty: 10.00

Required Qty: 10.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
M6061T6B0.500X06.00 0		Purchased	No			100	f	46.3300	10.1053			



6061-T6 Bar .500 x 6.00



Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

MAT05

46.33

110912

6.33

112567

40

4.725 mmc 10/09/07

W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order: 57407
Description: CAP		Part Number: 03262-5
Inspection Dwg: 03262 Rev: D		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

☒

First Article

☐

Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø 5.165	± .010	5.168	✓			
Ø 5.005	+0.010 -0.000	5.007	✓			
Ø .588	± .005	.590	✓			
Ø .771	+0.005 -0.000	.774	✓			
Ø .696	+0.007 -0.008	.695	✓			
Ø .882	+0.008 -0.007	.882	✓			
.091	+0.007 -0.008	.094	✓			
.101	+0.008 -0.007	.101	✓			
Ø .875	± .010	.876	✓			
3.25	± .030	3.245	✓			
.080	± .010	.080	✓			
.45	± .030	.450	✓			
.070 x 45°	± .010 X ± 1/2°	.070 x 45°	✓			
9/16-18 UNF						
3/4-16 UNF						

Measured by: MW	Audited by: SP	Prototype Approval:	N/A
Date: 10/04/07	Date: 10/04/08	Date:	N/A

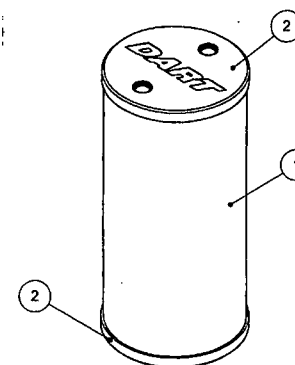
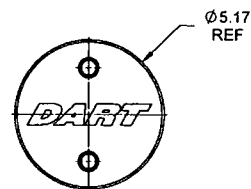
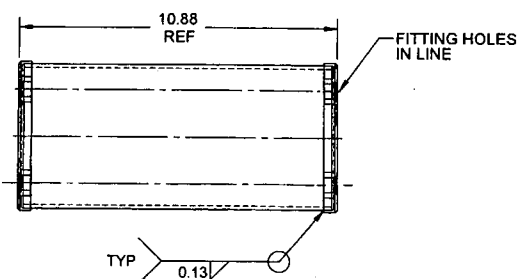
Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

Lean Is...

“LEAN IS... A mindset, or way of thinking

- A commitment to achieve a totally waste-free operation focused on the customer's success
- Achieved by simplifying and continuously improving all processes and relationships in an environment of trust, respect and full employee involvement
- It is about people, simplicity, flow, visibility, partnerships and true value as perceived by the customer.”

ITEM	QTY -041	P/N	DESCRIPTION
	X	D3262-041	CANISTER ASSEMBLY
1	1	D3262-1	TUBE
2	2	D3262-3	CAP



D3262-041 CANISTER ASSEMBLY

57407

RELEASED
2010-01-14
MP

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER QSI 005 4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3262-041" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 2.56 lbs
- 8) LIQUID PENETRANT INSPECT PER ASTM E1417 LEVEL 1 OR
PRESSURIZE TO 10 psi AND SUBMERGE UNDER WATER TO CHECK FOR LEAKS

D	ADD D3262-043/5 (ZN B5-2; B5-5); REVISE DIMENSIONS TO EQUAL TOOL DIMENSIONS (ZN B2-4; C2-4) PER CAR 09-004	RF	09.12.30
C	Ø 5.165 WAS Ø 5.190	RF	06.08.31
B	ADD PRESSURE TESTING OPTION	MB	05.02.14
A	NEW ISSUE	RF	04.05.06
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. D
MFG. APPR.	RF	D3262	SHEET 1 OF 5
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	FUEL PURGE CANISTER	NTS
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

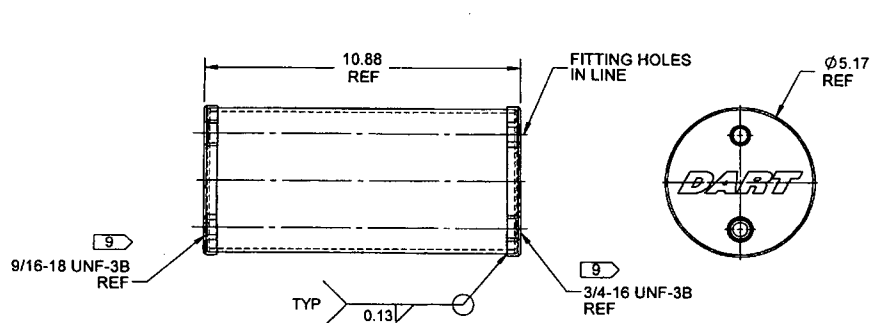
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

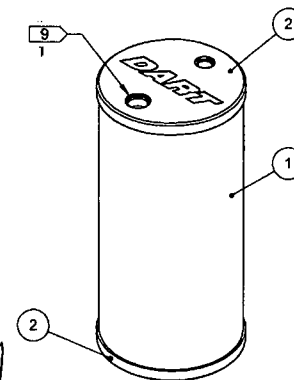
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

ITEM	QTY	P/N	DESCRIPTION
	X	D3262-043	CANISTER ASSEMBLY
1	1	D3262-1	TUBE
2	2	D3262-5	CAP



D3262-043 CANISTER ASSEMBLY



NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER QSI 005 4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3262-043" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 2.55 lbs
- 8) LIQUID PENETRANT INSPECT PER ASTM E1417 LEVEL 1 OR
PRESSURIZE TO 10 psi AND SUBMERGE UNDER WATER TO CHECK FOR LEAKS
- 9) WELD CAPS WITH 3/4-16 TAP TOP HOLE IN LINE WITH 9/16-18 TAP BOTTOM HOLE

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO. D3262	REV. D
MFG. APPR.	<i>[Signature]</i>	TITLE FUEL PURGE CANISTER	SCALE NTS
DE APPR.	<i>[Signature]</i>	COPYRIGHT © 2004 BY DART AEROSPACE LTD	
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2010-01-14
MP

57407

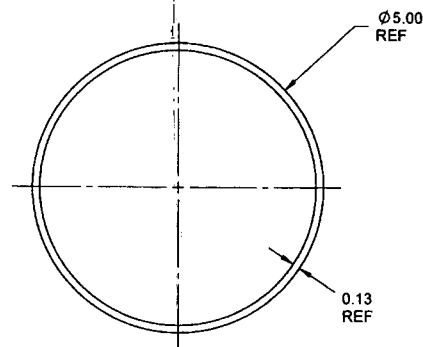
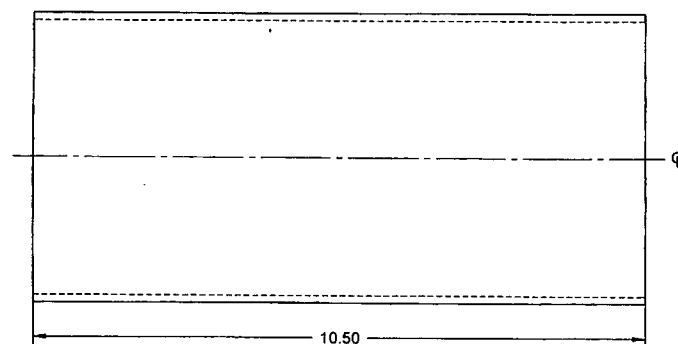
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D3262-1 TUBE

WLO 57407

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2010-01-14
MP

NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, 5.00 OD x 0.125 WALL
PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8
REF. DART SPEC. M6061T6T5.000W.125
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 1.96 lbs
- 8) PART IS SYMMETRICAL ABOUT CENTERLINE

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>ES</i>	DRAWING NO.	REV. D
MFG. APPR.	<i>21</i>	D3262	SHEET 3 OF 5
APPROVED	<i>140</i>	TITLE	SCALE
DE APPR.	<i>H</i>	FUEL PURGE CANISTER	NTS
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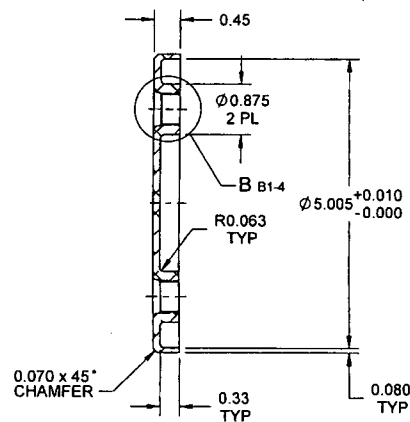
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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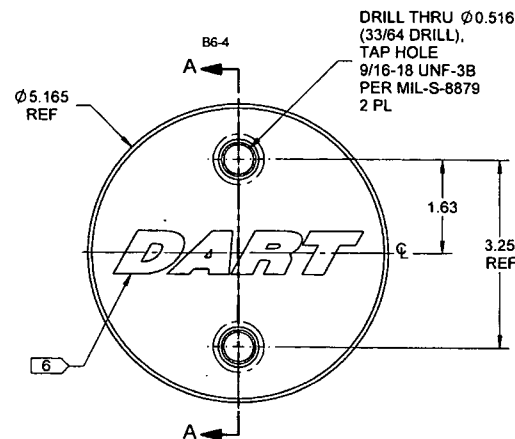
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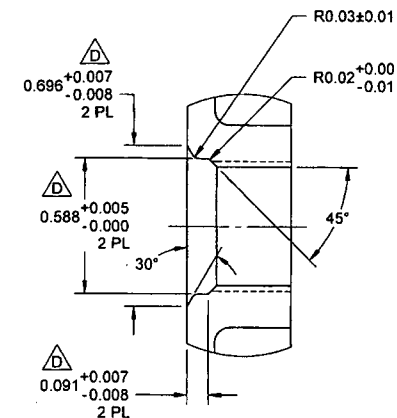
NOTE: Date & initial all entries



SECTION A-A C5-4



D3262-3 CAP



DETAIL B C7-4
SCALE 2X

NOTES:

- 1) MATERIAL: 6061-T6/T651 ALUMINUM BAR
PER QQ-A-200/8 OR QQ-A-225/8
REF. DART SPEC. M6061T6B
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE 'DART' LOGO AS SHOWN USING 0.75 HIGH x 0.010 DEEP
(MAX) LETTERS WITH TOOL RADIUS OF 0.25 MIN
- 7) WEIGHT: 0.30 lbs
- 8) PART IS SYMMETRICAL ABOUT CENTERLINE

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. D
MFG. APPR.	RF	D3262	SHEET 4 OF 5
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	FUEL PURGE CANISTER	NTS
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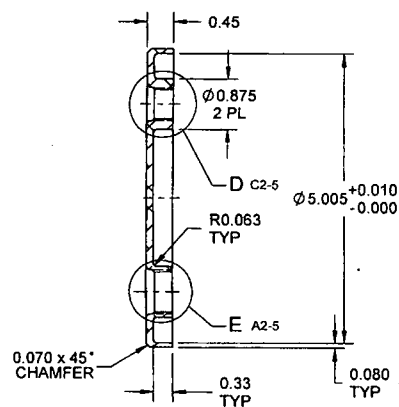
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

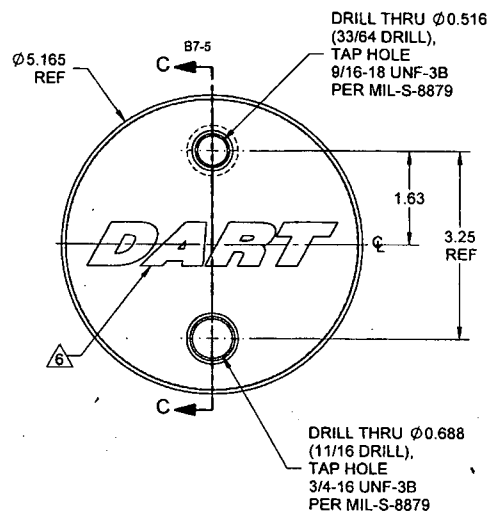
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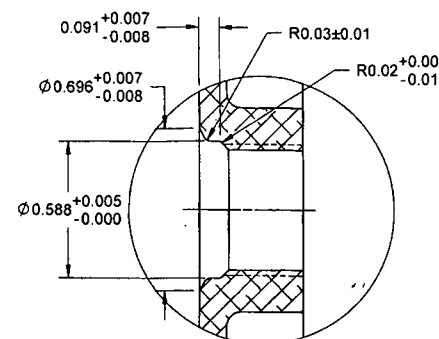
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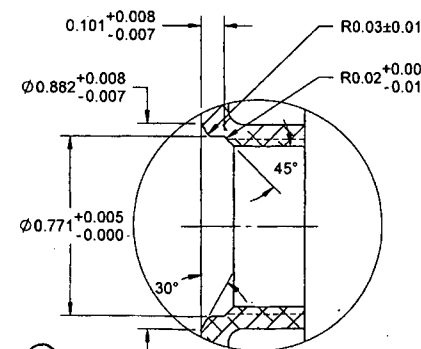
SECTION C-C D5-5



D3262-5 CAP



DETAIL D C7-5
SCALE 2X



DETAIL E B7-5
SCALE 2X

NOTES:

- 1) MATERIAL: 6061-T6/T651 ALUMINUM BAR
PER QQ-A-200/8 OR QQ-A-225/8
REF. DART SPEC. M6061T6B
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE 'DART' LOGO AS SHOWN USING 0.75 HIGH x 0.010 DEEP (MAX) LETTERS WITH TOOL RADIUS OF 0.25 MIN
- 7) WEIGHT: 0.29 lbs
- 8) PART IS SYMMETRICAL ABOUT CENTERLINE

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	RF	DRAWING NO. D3262	REV. D
MFG. APPR.	RF	TITLE	SCALE
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RELEASED
2010-01-14
MD

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